Ai-Ball Quick Start Guide

TREK 2000 International LTD - 30 Loyang Way #07-13/14/15 Singapore 508769
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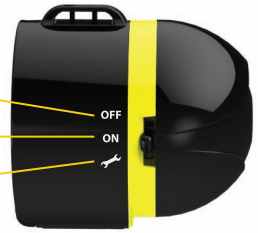
Device Overview

• Operating the Ai-Ball

Upper position switch "**OFF**" - Power off the Ai-Ball

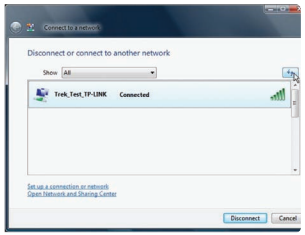
Middle position switch "**ON**" - Power on the Ai-Ball

Lower postion switch - "🔧" - Configuration of SSID and password

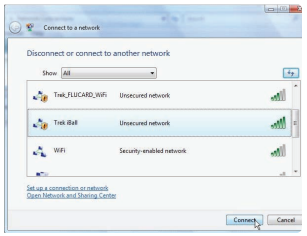


Getting Started

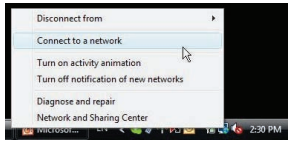
• Connecting your PC or mobile phone (with Wi-Fi) to Ai-Ball



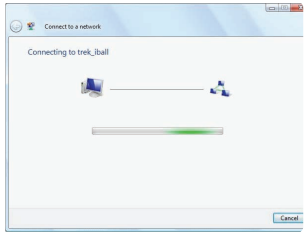
1) Switch "**ON**" your Ai-Ball and wait for about 10 seconds. Right click on the network icon on the system tray.



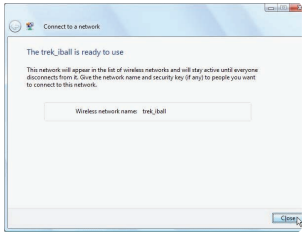
2) Click refresh button to locate Ai-Ball ("Trek Ai-Ball"), if your computer is not connected to the Ai-Ball yet.



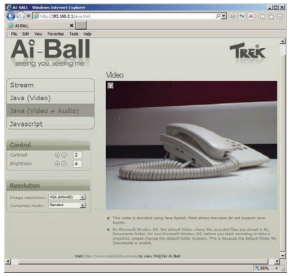
3) Select "Trek Ai-Ball" and click "Connect".



4) PC connecting to the Ai-Ball.



5) Once connected, PC is ready to view and play. (Note: you may get a message reporting that there is no access to Internet. You can ignore this, as you are only connecting to the Ai-Ball.)



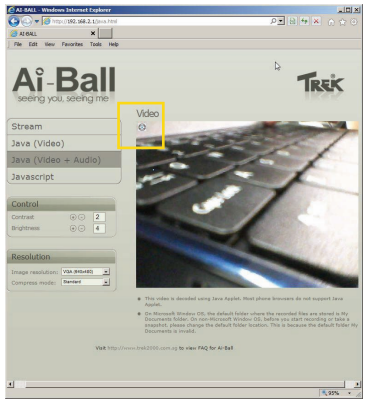
6) Enter http://ai-ball.com or http://192.168.2.1 on your web browser.

• View and Play

- Depending on your PC or mobile phone configuration, choose between "**Stream**", "**Java**", or "**Javascript**" to view the video transmitted from the Ai-Ball.
- You could click on the control buttons (on your web browser) to adjust the contrast and brightness level of the Ai-Ball. You could also set the resolution to VGA (640x480); QVGA (320x240); or QQVGA (160x120).
- You could also set the compression mode. The default values are "VGA" and "Standard", respectively.

• Video recording and Snapshot

1) While using your web browser to view the video stream from the Ai-Ball, select the **Java (Video + Audio)** method to play the video stream.



2) Move the mouse cursor to the "↻" icons at the top left hand corner of the video window.

3) You would see a pull-down menu of the **Record** button and the **Snap Shot** button.

Storage Folder: Set the folder destination for the recorded videos.

Video size: Set the maximum size of the recorded video file.

Record: Click the green record button to start recording. Button turns to red indicating that recording is in progress. Click on red record button to stop recording.

Snapshot: Click to take a snapshot. Name of captured picture will be shown in the subsequent prompt.

* On the Windows OS, if you double click the video file and your Windows Media Player could not play the format (in particular, Motion JPEG format), you would need to install a third party video codec. e.g., the free Media Player Codec Pack from http://www.mediaplayercodecpack.com/.

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Configuration

• Setting up different wireless connection with the Ai-Ball

There are 3 modes for your PC or mobile devices to connect to Ai-Ball: **Micro-AP (or µAP)** | **Ad-hoc** | **Infrastructure**

The default setting is "**µAP**". The **µAP** mode enables connection with PC, iPhone, Android phone and other Wi-Fi devices.

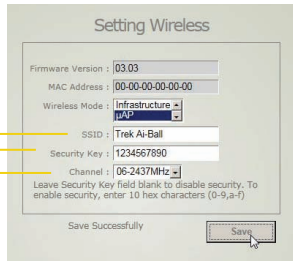
• Micro-AP (or µAP) Mode and Ad-hoc Mode

1) Switch to "🔧" on your Ai-Ball and wait for about 10 seconds. Right click on the network icon on the system tray.
2) Follow Step 2 to 6 of Getting Started to connect your PC or mobile phone (with Wi-Fi) to the Ai-Ball.
3) Select "µAP" or "Ad-hoc" under **Wireless Mode**.
4) Save the settings before exiting.
5) Turn off the Ai-Ball and turn it on again for the above settings to take effect.

SSID: Set the SSID for connecting with other Wi-Fi devices. (default is "Trek Ai-Ball")

Security Key: Note that you need to set the same key on your Wi-Fi device (check your device manual for details) to connect to Ai-Ball. Leave this blank if you do not need the security key setting on both devices.

Channel: You can change the channel number. If unsure, leave it as the default setting.


Setting Wireless
Firmware Version : 03.03
MAC Address : 00-00-00-00-00-00
Wireless Mode : Infrastructure
µAP
SSID : Trek Ai-Ball
Security Key : 1234567890
Channel : 06-2437MHz
Leave Security Key field blank to disable security. To enable security, enter 10 hex characters (0-9,a-f)
Save Successfully
Save

• Infrastructure LAN Mode

1) Switch to "🔧" on your Ai-Ball and wait for about 10 seconds. Right click on the network icon on the system tray.
2) Follow Step 2 to 6 of Getting Started to connect your PC or mobile phone (with Wi-Fi) to the Ai-Ball.
3) Select "Infrastructure" under **Wireless Mode**.
4) Save the settings before exiting.
5) Turn off the Ai-Ball and turn it on again for the above settings to take effect.

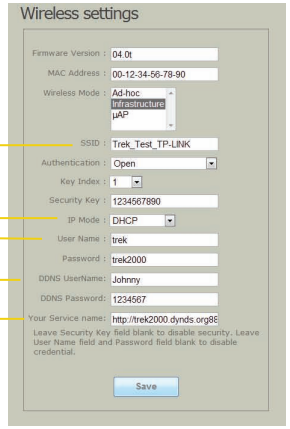
***SSID**: Set the SSID ("Trek_Test_TP_LINK" in example) of the Wireless AP Router, which the Ai-Ball and your Wi-Fi devices are commonly connected to.

IP Mode: Select "Static ".

User Name: Type in Trek and Trek2000 for User Name and Password.

DDNS Username /Password: One time setting. (This setting allows you to log in to Dlinkddns and DynDNS server to update this server of your router's IP address for remote viewing)

Your Service Name /Password: Please refer to advanced configuration, Infrastructure WAN Mode No.(6)



Authentication, Key Index, Subnet Mask, Gateway are base on your Wireless AP Router (check your manual for details).

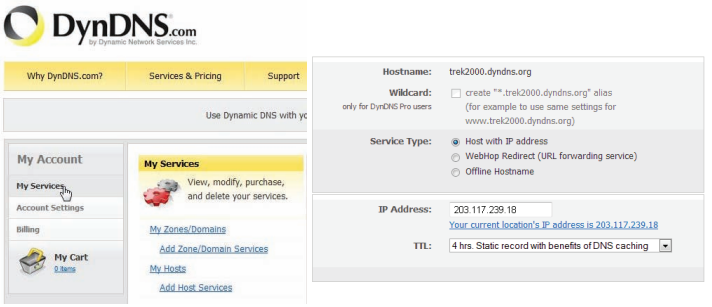
Advanced Configuration

• Infrastructure WAN Mode

This mode allows users to view the video from a remote location (e.g. viewing from overseas) by connecting the Ai-Ball to Internet via a Wi-Fi access point (AP) router. Such connectivity is also known as Infrastructure (WAN) Mode.

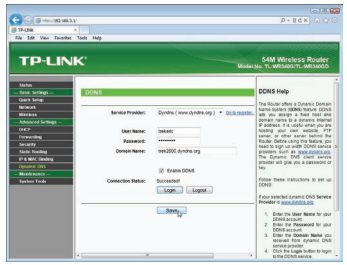
1) Follow the steps described in Setting Up Wireless Connection for Infrastructure LAN Mode, except for the following fields -

Port: Set a port number other than the default "80" (preferably between 2000 and 64000).
User Name/Password: Do not set the User Name and Password, leave them blank.

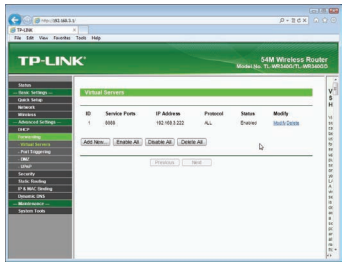


2) You need to choose and setup an account with a DDNS service provider. Login to your DDNS service account (we use the free DynDNS service as an example).

3) Go to My Services, select Add Host Services and configure the DDNS accordingly. By connecting your PC / laptop to Internet via the same Wireless AP Router, the DynDNS site (after you login) is able to detect the actual IP address of your Wireless AP Router (as shown in the above example), you could enter this address in the **IP Address** entry. It is also recommended to select "4 hrs Static record" under the **TTL** entry.



4) Configure the DDNS (Dynamic DNS) settings in your Wireless AP Router accordingly. (check your manual for details)



5) For port forwarding, configure the Virtual Servers settings accordingly. Note that you should use the same static IP address and port number assigned to the Ai-Ball in Step (1) ("192.168.3.222" and "8888" respectively for example).

We are now ready to view the Ai-Ball remotely.

6) From remote location, use a web browser (on a PC with Internet access) and enter the address accordingly. In our example, the address is: "http://trek2000.dyndns.org:8888" Note that "8888" is the port number we have chosen in Step (1).

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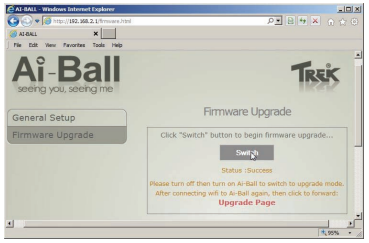
Firmware Upgrade

This allows you to upgrade the firmware via the Wi-Fi connection.

1) To download the latest firmware for the Ai-Ball, please go to **www.thumbdrive.com** and visit our **SUPPORT** page.
2) Switch to "🔧" on your Ai-Ball and wait for about 10 seconds. Right click on the network icon on the system tray.
3) Follow Step 2 to 6 of Getting Started to connect your PC or mobile phone (with Wi-Fi) to the Ai-Ball.


Ai-Ball
seeing you, seeing me
General Setup
Firmware Upgrade
Firmware Upgrade
Click "Switch" button to begin firmware upgrade...
Switch
Status :Success
Please turn off then turn on Ai-Ball to switch to upgrade mode.
After connecting wifi to Ai-Ball again, then click to forward:
Upgrade Page

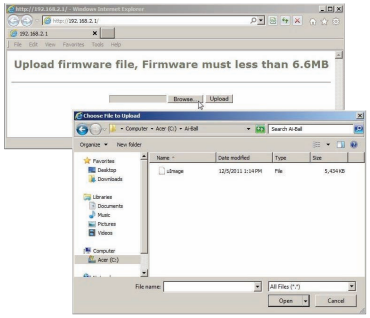
4) Click on "Firmware Upgrade" in the side menu. Then click on the "Switch" button as shown.

5) After this, turn off the Ai-Ball (as mentioned in the Firmware Upgrade page). Next, Switch to "🔧" on your Ai-Ball and wait for about 10 seconds. ". The SSID of the Ai-Ball is changed to "**Trek Ai-Ball Recover**". Connect your PC to the Ai-Ball, as shown on the right.

Next, enter http://ai-ball.com or http://192.168.2.1 on your web browser.

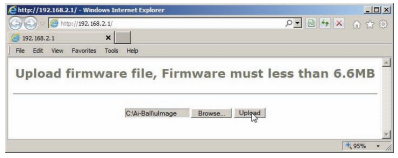
Windows Security
The server 192.168.2.1 at Web Server Authentication requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
user
Remember my credentials
OK
Cancel

6) You will be asked to login to proceed. Enter the Username as "**user**" and the Password as "**pass**".

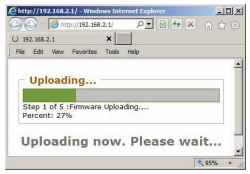


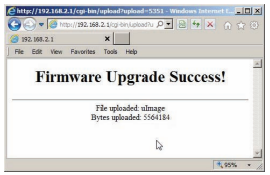
7) Click the "Browse" button and you will be asked to provide the location of the firmware upgrade image which you downloaded in step (1).

In the example on the left, the firmware image is "uImage". Select the file and click "Open".



8) After this, click the "Upload" button to proceed with the firmware upgrading.





9) You will be shown a progress status page. *Note: do not switch off the Ai-Ball during the firmware upgrading process.

A message will appear once firmware is successfully upgraded.

10) Turn off the Ai-Ball and turn it on again. The Ai-Ball would then run on the new firmware.

FCC

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Federal Communications Commission Requirements
The equipment has been tested and found to comply with the limits for Class B Digital Device. pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient of relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• consult the dealer or an experienced radio/TV technician for help.

THE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.